

ELECTRONIC DEVICE HAVING A BARRIER REGION
INCLUDING ALUMINUM AND A METHOD OF MANUFACTURE THEREFOR

ABSTRACT OF THE DISCLOSURE

The present invention provides an electronic device having
5 superior qualities. The electronic device includes an active
region located over a substrate and an undoped layer located over
the active region, the undoped layer having a barrier region
including aluminum located thereover. The electronic device
further includes a doped upper cladding layer located over the
10 barrier region. In an exemplary embodiment of the invention, the
barrier region is a barrier layer or a number of barrier layers
located between a plurality of the undoped layers.